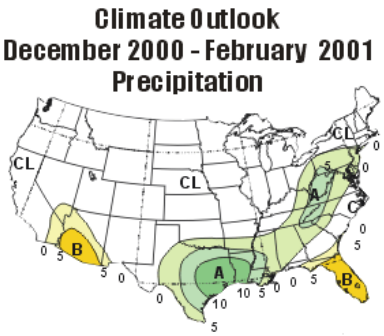
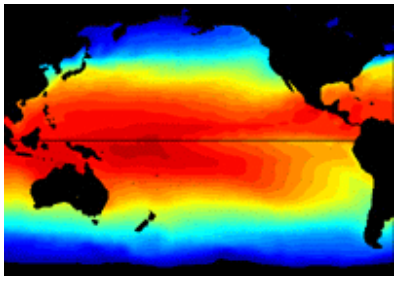
Office of Global Programs

Observing, understanding & predicting global climate

Forest fire (Summer 2000)



Map shows area of the country that is expected to experience departures from normal for precipitation during the next 30-days.
http://www.cpc.ncep.noaa.gov



Sea surface temperature

The IRI Monell Building

1315 East West Hwy
Silver Spring, MD 20910
301-713-1671
www.oar.noaa.gov

What does the Office of Global Programs do for the nation?

TheThe NOAA Climate andThe NOAA Climate and GlobalThe NOAA Climate and Globa advancementadvancement of research on the dynamic global climate system. The ProPrograProgramProgram is managed by the Office of Global Programs (OGP responsibleresponsible for the NOAA contribution to responsible for the NOAA internationalinternational endeavors designed to improve ourinternational endeavors de assess,assess, predict,assess, predict, and respond to changes in the global environmer hashas been an essential element of thhas been an essential element of the US G (USGCRP)(USGCRP) since its inception in the late 1980s and has g(USGCRP) scientificscientific insights relatedscientific insights related to the natural earth system.sc notablynotably in the area of El Niño prediction, has demonstnotably in the area of strong partnership between NOAA and externalstrong partnership between NOAA and moremore than $60 million annual appropriation supports extramural rmore than $60 remainder supports climate research in NOAAremainder supports climate research in N designeddesigned to provide a preddesigned to provide a predictive undesigned to modesmodes ofmodes of variability and to advance the application of this informationm sensitivesensitive sectors throughsensitive sectors through a suite of process research, o andand applicationand application and assessment activities. Thus,and application and serviceservice and natural resource stewardship missionservice and natural resource s the Nation in the form of scientific understanding and predictive capacities.

Specifically, OGP supports

- operationaloperational in-situ and satellite climate observations with an emphasis oceanic and atmospheric dynamics, circulation, and chemistry;
- understandingunderstanding andunderstanding and predicting ocean-land-atmosph hydrolhydrologicalhydrological chydrological cycle, and the role of global transfers the atmosphere, ocean and terrestrial biosphere;
- improvementsimprovements in climate modeling, prediction,improvements in climat capabilities;
- thethe prthe projethe projection and assessment of climate variability across mu scales;
- thethe studythe study of the relationshipthe study of the relationship between the na andand the development of methodologies forand the development of methodologies problemsproblems of problems of sociaproblems of social and economic consequenc consequences, etc.); and,
- archiving,archiving, management, and disseminationarchiving, management, and di global change research.

OGP Accomplishments

- TheThe International Research The International Research InstituThe International Re DoDohertyDoherty Doherty EarthDoherty Earth Observatory of Columbia University in establiestablishedestablished in established in 1999. OGP will support this criti ***Payoffs:Payoffs: A world-clPayoffs: A world-class,Payoffs: A world-class, understandingunderstanding and predictionunderstanding and prediction mademade enormous contributions to the understamade enormous contrib thethe second-only-to-the seasons climate phenomenthe second-only-to-th Niño-SouthernNiño-Southern Oscillation (ENSO), with a special recent emp Africa.***

" OGPOGP was responsible for the management of the Tropical Ocean GOGP was responsible for the r Program.Program. The Tropical Atmosphere Ocean (TAO) array ofProgram. The Tropical Atmosphere Ocean (TA MarineMarine Environmental Laboratory that span theMarine Environmental Laboratory that span the equatoria valuablevaluable legacy of this program. The TAO array is valuable legacy of this program. The TAO array is u OrganizationOrganization (WMO), and most of the relevantOrganization (WMO), and most of the relevant nationa andand monitor El Niño and La Niña events.and monitor El Niño and La Niña events. OGP is also actively involved ininin the Atlantic and the Indian Oceans. ***Payoffs: Payoffs: This array is the Payoffs: This array is the oce Telescope.Telescope. It provides accurate, near-to-real-time measTelescope. It provides accurat atmospheric variables***

" NewNew programs based on the TOGA model include Climate Variability (CLIVAR), Pan American Climate StudiesStudies (PACS) and Eastern Pacific Investigation of Climate Processes in the Coupled Ocean-AtmosphereAtmosphere System (EPIC). EPIC is a five year process study designed to improve the descriptio andand understandingand understanding of key ocean features, the intertropical convergenceand understanding ininin the eastern Pacific.in the eastern Pacific. Accomplishments to date include expanding the upper air soundin thethe eastern Pacific; enhancingthe eastern Pacific; enhancing the 95° W TAO line to measure heat,the eastern and,and, producing new high-resolution satellite-derived estimates of surface wind fields, raand, producing ne vapor,vapor, cloudiness, and sea surface temperatures (SSTs). ***PayofPayoffsPayoffs: The ground-breaki sciencescience legacy lives on through new programs designed to provide finescience legacy lives on modmodelmodel synthesis and development, as well as scientific breakthroughs in our fundamentm understanding of the coupled ocean-atmosphere system.***

What s next for OGP?

NOAANOAA will implement a Climate Services program to help reduce impacts from, and adapNOAA will imple variationsvariations anvariations andvariations and change. The C&GC Program will provide much of the scient endeavor.endeavor. In making the transition from the continuing results of our reseaendeavor. In making the tra products,products, aproducts, a number of benefits will be readily apparent. Estimates of the valueproducts, a num suchsuch as California asuch as California and Persuch as California and Peru for the 1997-8 El Niño suggest tha ininin the absence of any advance warning was avoided. In the future, we shouldin the absence of any advance warn climate-relatedclimate-related eventsclimate-related events asclimate-related events as the extremely dry conditions West.

NOAANOAA is a major contributor to multi-agency planning efforts by both the carbonNOAA is a major contributor to andand the water cycle research community to design respective, integrated plans. and the water cycle research com havehave advanced to the point where rapid, more efficient progrhave advanced to the point where rapi independentlyindependently fullyindependently fully integratedindependently fully integrated nationally and internati thethe organization of new USGCRP foci on the carbon and water cycles for fiscal years 2001the organization of n

NOAA/OGPNOAA/OGP will also target researchNOAA/OGP will also target research resources on climate variabilit interannual.interannual. Both the Pacific Decadal Oscillation (PDO) and the North Atlantic Oscillation (NAO) ma provideprovide newprovide new climate information highly relevant toprovide new climate information highly relevan and Europe.

Budget and Staff:

OGPOGP is aOGP is a $ 75.6 million program office ($68.2 millionOGP is a $ 75.6 million program office ($68.2 millio employees, 4 contract employees and 20 cooperative-agreement employees.

For more information, contact:

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